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PTO/SB/DBA (08-03)

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Substitute for form 1449/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Application Number	09/924,755
		Filing Date	08/07/2001
		First Named Inventor	Enrique Musoll
		Art Unit	2662
		Examiner Name	Hassan Kizou
Sheet 1 of 1	Attorney Docket Number	P3827	

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No.	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
QA		US- 2001-0024456A1 *	09-2001	Zaun et al.	
		US- 6483804 B1 *	11-2002	Muller et al.	
		US- 6438135 B1 *	08-2002	Tzeng, Shrlie	
		US- 6219339 *	04-2001	Doshi et al.	
		US- 5809321 A *	09/1998	Hansen et al.	
		US- 5737525 *	04-1998	Picazo et al.	
		US- 5619497 A *	04-1997	Gallagher et al.	
		US- 5521916 A *	05-1996	Choudhury et al.	
QA		US- 5465331 A *	11-1995	Yang et al.	
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FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No.	Foreign Patent Document Country Code ³ Number ⁴ Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear

Examiner Signature	<i>Q. Dumbho</i>	Date Considered	12/3/05
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* References not provided under §1.98



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		Filing Date	8/7/2001		
		First Named Inventor	ENRIQUE MUSOLL		
		Group Art Unit	2667		
		Examiner Name	HASSAN KIZOU		
Sheet	1	of	1	Attorney Docket Number	MIPS.0176-00-US

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AS		6131163	10-10-2000	Scott L. Wiegel	
AS		6016308	1-18-2000	Crayford et al.	
AS		6502213	12-31-2002	Michel K. Bowman-Amuah	
AS		5408464	04-18-1995	Mark Jurkevich	

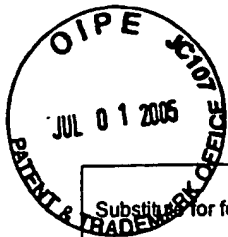
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				Application Number	09/924755
				Filing Date	08/07/01
				First Named Inventor	Enric Musoll
				Art Unit	2667
				Examiner Name	KIZOU, HASSAN
Sheet	1	of	4	Attorney Docket Number	MIPS.0176-00-US

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		Number-Kind Code ² (if known)			
AK		4200927	04-29-1980	Huges et al.	
		5708814	1-13-1998	Short et al.	
		5724565	03-03-1998	Dubey et al.	
		5784649	07-21-1998	Begur et al.	
		6151644	11-21-2000	Chun-Chu Archie Wu	
		6453360	09-17-2002	Muller et al.	
		6460105	10-01-2001	Jones et al.	
		6529515	03-04-2003	Raz et al.	
		6523109	02-18-2003	Stephan G. Meier	
		6640248	10-28-2003	Jacob W. Jorgensen	
		6625808	09-23-2003	David R. Tarditi	
		6738371	05-18-2004	Lawrence Ayres	
		6738378	05-18-2004	Tuck, III et al.	
		6813268	11-02-2004	Kalkunte et al.	
		6535905	03-18-2003	Kalafatis et al.	
		20010004755	06-21-2001	Levy et al.	
		20010005253	06-28-2001	Hiroshi Komatsu	
		20010052053	12-13-2001	Nemirovsky et al.	
		20010043610	11-22-2001	Nemirovsky et al.	
		20020016883	02-07-2002	Musoll et al.	
		20020049964	04-25-2002	Takayama et al.	
		20020054603	05-09-2002	Musoll et al.	
		20020071393	06-13-2002	Enric Musoll	
		20020083173	06-27-2002	Musoll et al.	
		20040213251	10-28-2004	Tran et al.	
		20040172504	09-02-2004	Balazich et al.	
		20040015598	01-22-2004	Jin-Fun, Lin	
AK		09/608,750	NA	Nemirovsky et al.	
		09/602,279	NA	Nemirovsky et al.	

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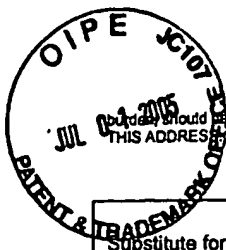
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	AA	WO 03/005645A2	06-25-2002	Sampath et al.		

NON PATENT LITERATURE DOCUMENTS			
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AK	BA	MELVIN ET AL., "Extended Instruction Set for a Packet Processing Applications," July 5, 2001, Disclosure Document #496559, USPTO	
	BB	MUSOLL ET AL., "Hardware Algorithm for Allocating and De-Allocating Consecutive Blocks of Memory," April 3, 2001, Disclosure Document #491557, USPTO	
	BC	MUSOLL ET AL., "Mechanism to Overflow Packets to a Software Controlled Memory When They Do Not Fit into a Hardware Controlled Memory," July 3, 2001, Disclosure Document #496391, USPTO	
	BD	MUSOLL ET AL., "Mechanism for Allowing a Limited Packet Head and/or Tail Growth Without Moving the Packet to a Different Memory Location," April 16, 2001, Disclosure Document #492429, USPTO	
	BE	MUSOLL ET AL., "Mechanism to Activate a Context When No Stream is Running in a Multi-Streaming Processing Core," April 16, 2001, Disclosure Document #492431, USPTO	
	BF	MUSOLL, ENRIC, "Functional Validation of a Packet Management Unit," May 18, 2001, Disclosure Document #429011, USPTO	
	BG	SAMPATH ET AL., "Mechanism to Un-speculatively Pre-fetch Instructions from the Thread Associated to a Packet," April 2, 2001, Disclosure Document #491527, USPTO	
	BH	YAMAMOTO, WAYNE. An Analysis of Multistreamed, Superscalar Processor Architectures. University of California Santa Barbara Dissertation. December 1995. Santa Barbara, US.	
AK	BI	YAMAMOTO ET AL. "Increasing Superscalar Performance Through Multistreaming." Parallel Architectures and Compilation Techniques (PACT '95). 1995	

Examiner Signature	<i>A. Enrich</i>	Date Considered	12/6/05
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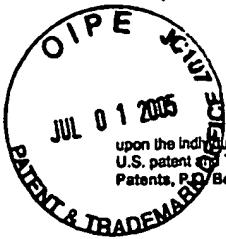


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Sheet	3	of	4	Attorney Docket Number	MIPS.0176-00-US

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AK	BJ	The PowerPC Architecture: A Specification for a New Family of RISC Processors. 2 nd Ed. May 1994. pp. 70-72. Morgan Kaufmann. San Francisco, US.		
	BK	MC68020 32-Bit Microprocessor User's Manual. 3 rd Ed.. 1989. pp. 3-125, 3-126, and 3-127. Prentice Hall, NJ, US.		
	BL	POTEL, M. J. "Real-Time Playback in Animation Systems." Proceedings of the 4 th Annual Conference on Computer Graphics and Interactive Techniques. 1977. pp. 72-77. San Jose, CA, US.		
	BM	ARM Architecture Reference Manual. 1996. pp. 3-41, 3-42, 3-43, 3-67, and 3-68. Prentice Hall, NJ, US.		
	BN	ESA/390 Principles of Operation. IBM Online Publications Center Reference Number SA22-7201-08. Table of Contents and paras. 7.5.31 and 7.5.70. IBM Corporation, Boulder, CO, US.		
	BO	MC88110 Second Generation RISC Microprocessor User's Manual. 1991. pp. 10-66, 10-67, and 10-71. Motorola, Inc.		
	BP	DIEFENDORFF ET AL. "Organization of the Motorola 88110 Superscalar RISC Microprocessor." IEEE Journal of Microelectronics. April 1992. pp. 40-63. Vol. 12, No. 2. IEEE. New York, NY, US.		
	BQ	KANE, GERRY. PA-RISC 2.0 Architecture. 1996, pp. 7-106 and 7-107. Prentice Hall. NJ, US.		
	BR	DIEFENDORFF ET AL. "Altivec Extension to PowerPC Accelerates Media Processing." IEEE Journal of Microelectronics. Vol. 20, No. 2 (2000): pp. 85-95		
	BS	GRUNEWALD ET AL. "Towards Extremely Fast Context Switching in a Block Multithreaded Processor." Proceedings of EUROMICRO 22, 1996. pp. 592-599		

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AQ	BT	BRADFORD ET AL. "Efficient Synchronization for Multithreaded Processors." Workshop on Multithreaded Execution, Architecture, and Compilation. Jan-Feb 1998. pp. 1-4	
AQ	BU	PAI ET AL. "An Evaluation of Memory Consistency Models for Shared-Memory Systems with ILP Processors." Proceedings of ASPLOS-VII, Oct. 1996: pp. 12-23, ACM, Inc.	
AQ	BV	YOAZ ET AL. "Speculation Techniques for Improving Load Related Instruction Scheduling." 1999. Pages 42-53, IEEE.	
AQ	BW	KESSLER, R. E. "The Alpha 21264 Microprocessor: Out-of-Order Execution at 600 MHz." August 1998.	
AQ	BX	DONALSON ET AL. "DISC: Dynamic Instruction Stream Computer, An Evaluation of Performance." 26th Hawaii Conference on Systems Sciences. Vol. 1. 1993. Pages 448-456.	
AQ	BY	NEMIROVSKY ET AL. "DISC: Dynamic Instruction Stream Computer." ACM. 1991. Pages 163-171	
AQ	BZ	UNGERER ET AL. A Survey of Processors with Explicit Multithreading. ACM Computing Surveys, Vol., 35, No. 1. March 2003. Pages 29-63.	

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Examiner Name	Hassan Kizou
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AL		US- 6088745 A *	07-11-2000	Bertagna et al.	
		US- 6157955 A *	12-05-2000	Narad et al.	
		US- 6169745 B1 *	01-02-2001	Liu et al.	
		US- 6226680 B1 *	05-01-2001	Boucher et al.	
		US- 5918050 A *	08-29-1999	Rosenthal et al.	
		US- 6223274 B1 *	04-24-2001	Catthoor et al.	
		US- 6023738 A *	02-08-2000	Priem et al.	
		US- 5659797 A *	08-19-1997	Zandveld et al.	
		US- 6070202 A *	05-30-2000	Minkoff et al.	
		US- 6247105 B1 *	06-12-2001	Goldstein et al.	
		US- 5978893 A *	11-02-1999	Bakshi et al.	
		US- 5784899 A *	07-21-1998	McMahon et al.	
		US- 5834015 A *	05-27-1997	Chang et al.	
		US- 5023776 A *	08-11-1991	Gregor, Steven	
		US- 4942518 A *	07-17-1990	Weatherford et al.	
	AL		US- 4707784 A *	11-17-1987	Ryan et al.
		US- 6009516 A *	12-28-1999	Steiss et al.	
		US- 5812810 A *	09-22-1998	Sager, David	
	US- 5987578 A *	11-16-1999	Butcher, Lawrence		

[illegible]

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Sheet 2 of 3

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		US- 5978570 A *	11-02-1999	Hillis, W. Daniel	
		US- 6073251 A *	08-08-2000	Jewett et al.	
		US- 6981242 B1 *	04-30-2002	Maher, III et al.	
		US- 5786866 A *	08-18-1998	Simcoe et al.	
		US- 5291481 A *	03-01-1994	Doshi et al.	
		US- 5121383 A *	06-09-1992	Golestani, S. Jamaloddin	
	US-				
	US-				
	US-				
	US-				
	US-				
	US-				
	US-				
	US-				
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FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ³ Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁴

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Date
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12/7/05

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* References not provided under § 1.98

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Complete if Known

Application Number	09/924,755
Filing Date	08/07/2001
First Named Inventor	Enrique Musoll
Art Unit	2662
Examiner Name	Hassan Kizou
Attorney Docket Number	P3827

Sheet 3 of 3

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
AK		* KNUTH, DONALD E., "The Art of Computer Programming, Third Edition, Volume 1, Fundamental Algorithms", "Sec. 2.5 Dynamic Storage Allocation", 1997, pp 435-458, Addison-Wesley, US	
AK		* DIEFENDORFF, Keith, K7 Challenges Intel, Microprocessor Report, October 26, 1998, Vol. 12, No. 14, US	

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Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Complete if Known	
				Application Number	09/924755
				Filing Date	8/7/2001
				First Named Inventor	Enrique Musoll
				Group Art Unit	2667
				Examiner Name	Viet Q. Le
				Attorney Docket Number	MIPS.0176-00-US
Sheet	1	of	1		

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
CP		20040148382	07-29-2004	Narad et al.	
		20050061401	03-24-2005	Tokoro et al.	
		20040172471	09-02-2004	Kelvin R. Porter	
		20020124262	09-05-2002	Basso et al.	
		6249801	06-19-2001	Zisapel et al.	
		6219783	04-17-2001	Zahir et al.	
		6253313	06-26-2001	Morrison et al.	
		6047122	04-04-2000	Cynthia J. Spiller	
		5892966	04-06-1999	Petrick et al.	

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Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)				

Examiner Signature		Date Considered	12/12/05
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